

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of the claims in the application:

What is claimed:

Claim 1. (Currently Amended) Steel for the production of high-strength components with excellent low-temperature toughness, having the following composition (in % by weight):

C: 0.08 to 0.25 %,

Si: 0.10 to 0.30 %,

Mn: 0.80 to 1.60 %,

P: [[=]] \leq 0.020 %,

S: [[=]] \leq 0.015 %,

[[the]]a sum of the P and S content being [[=]] \leq 0.030 %,

Cr: 0.40 to 0.80 %,

Mo: 0.30 to 0.50 %,

Ni: 0.70 to 1.20 %,

Al: 0.020 to 0.060 %,

N: 0.007 to 0.018 %,

V: ~~= 0.15 %,~~

Nb: [[=]] 0.02 to 0.07 %,

~~the sum of the V and Nb content being = 0.020 %, the remainder being iron and inevitable impurities.~~

Claim 2. (Previously Presented) Steel according to Claim 1, wherein its C content is from 0.16 % by weight to 0.23 % by weight.

Claim 3. (Previously Presented) Steel according to Claim 1 wherein its Mn content is from 1.00 % by weight to 1.35 % by weight.

Claim 4. (Previously Presented) Steel according to Claim 1 wherein its Cr content is from 0.40 % by weight to 0.65 % by weight.

Claim 5. (Previously Presented) Steel according to Claim 1 wherein its Mo content is from 0.35 % by weight to 0.50 % by weight.

Claim 6. (Previously Presented) Steel according to Claim 1 wherein its Ni content is from 0.75 % by weight to 1.00 % by weight.

Claim 7. (Previously Presented) Steel according to Claim 1 wherein its Al content is from 0.020 % by weight to 0.045 % by weight.

Claim 8. (Previously Presented) Steel according to Claim 1 wherein its N content is from 0.007 % by weight to 0.015 % by weight.

Claim 9. (Previously Presented) Steel according to Claim 1 wherein it has an austenite grain size that is finer than ASTM 10.

Claim 10. (Previously Presented) Use of a steel composed according to Claim 1 for the production of high-strength components by cold forming with subsequent temper-hardening.

Claim 11. (Currently Amended) Use according to Claim 10, wherein the components are means-used for [[the]] carrying, pulling, lifting, conveying or securing of loads.

- Claim 12. (Currently Amended) Use according to Claim 10, wherein the components are means-used for [[the]] connection of structural elements.
- Claim 13. (Previously Presented) Use according to Claim 10, wherein the components are chains.
- Claim 14. (Previously Presented) Use according to Claim 13, wherein the chains are round steel chains.
- Claim 15. (Previously Presented) Use according to Claim 13, wherein the chains are welded.
- Claim 16. (Currently Amended) Use according to Claim 10, wherein the components have a tensile strength of at least 1,200 MPa.
- Claim 17. (Currently Amended) Use according to Claim 16, wherein the tensile strength is at least 1,550 MPa.
- Claim 18. (Currently Amended) Use according to Claim 16, wherein the tensile strength is at least 1,600 MPa, ~~in particular at least 1,650 MPa.~~
- Claim 19. (Currently Amended) Use according to Claim 10, wherein at a tensile strength of at least 1,550 MPa, ~~the-a~~ fracture appearance transition temperature FATT of the components is at most –60 °C.
- Claim 20. (Currently Amended) Use according to Claim 10, wherein ~~the-a~~ notch impact working value is more than 45 J.
- Claim 21. (Currently Amended) Use according to Claim 10, wherein ~~the-a~~ material of the component has a technical crack initiation toughness J_{IC} of more than 170 N/mm².

Claim 22. (Previously Presented) Use according to Claim 21, wherein the technical crack initiation toughness J_{IC} is more than 185 N/mm².

Claim 23. (Previously Presented) Use according to Claim 10, wherein the components exhibit an elongation at break of more than 28%.